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**[00068]** The invention relates to the field of PCVD methods of making an optical fiber and apparatuses for use in PCVD methods. The disclosed methods and apparatuses improve the PCVD process by enhancing the efficiency of the deposition process. The use of the disclosed methods and apparatuses, individually or in combination thereof, will result in at least reducing the time necessary to deposit a predetermined amount of glass on a substrate.